MacViewer
Remote Monitoring Software for Mac OS

User Manual

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□ Functions or configurations are subject to be changed or modified without prior notice.

Server : H.264 DVR
1st Edition : April 2011

Thank You !

Before operating the system, please read this User Manual and retain it for future reference.

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1. System Startup

MacViewer is the software for Mac OS based PC. It provides many essential functions such as Live Monitoring up to 16 channels and VOD Playback with Intelli-Search Bar through network connection to DVR.

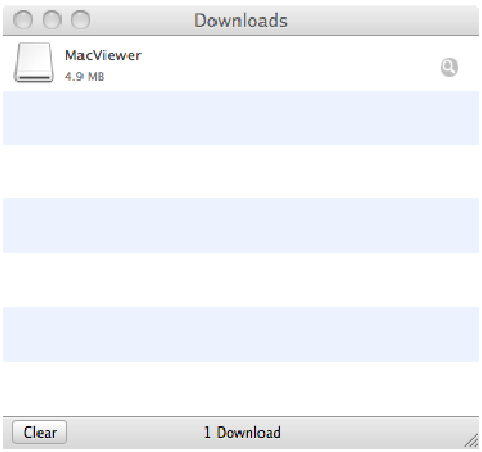
1.1 System Requirement

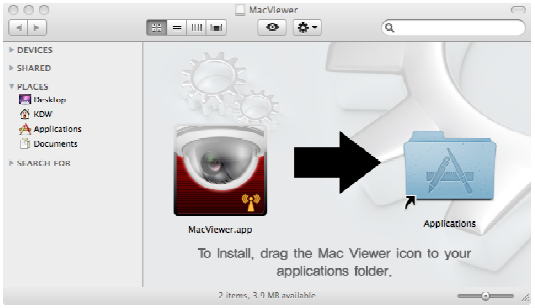
[Recommended Specification]

Category	Content
OS	Mac OS X 10.6 or Higher
CPU	Intel x86 or x64 series
RAM	1GB or Over
VGA	1200×700 or Over
HDD	30MB free space for installation

1.2 Software Installation

Execute MacViewer_1.0.dmg file and start application installation manager.





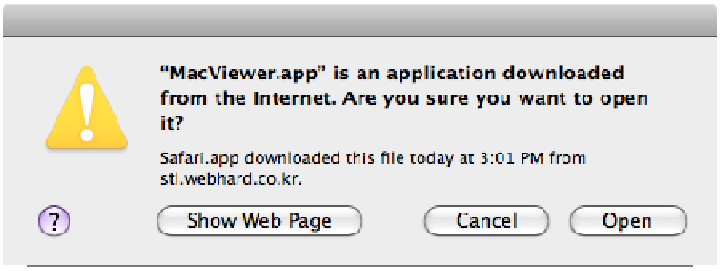
In application manager, drag MacViewer.app icon to Application folder icon. Then the installation process is finished.

Note It will be registered to MacAPP Store for easy download, installation & update.

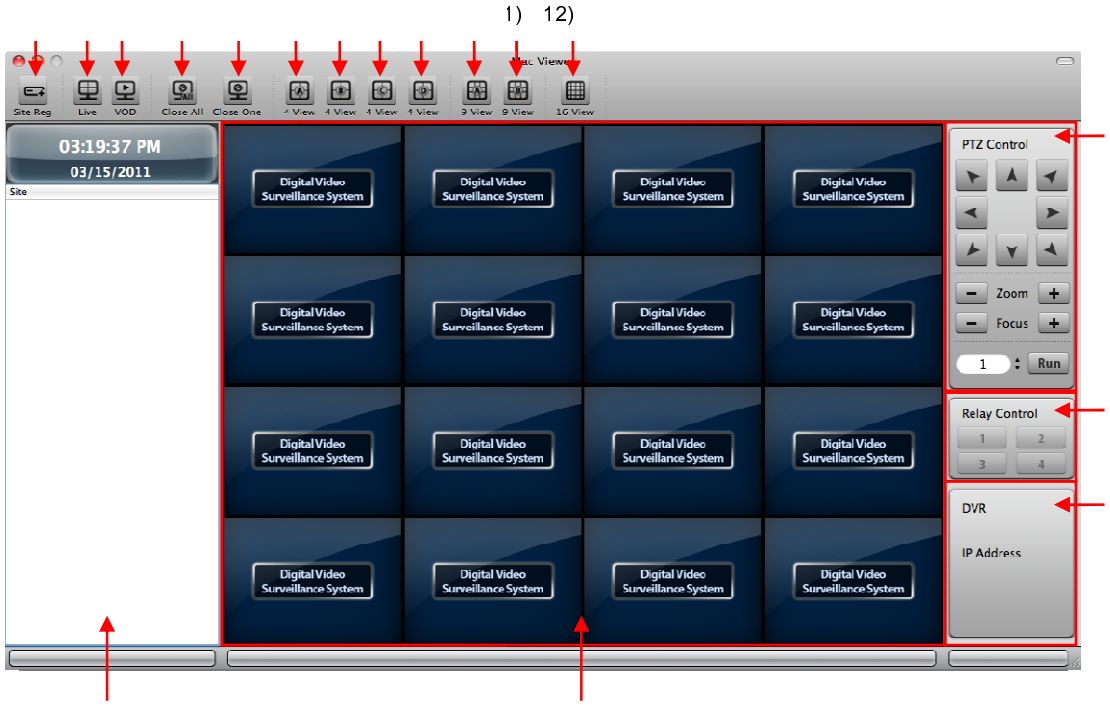
1.3 System Startup

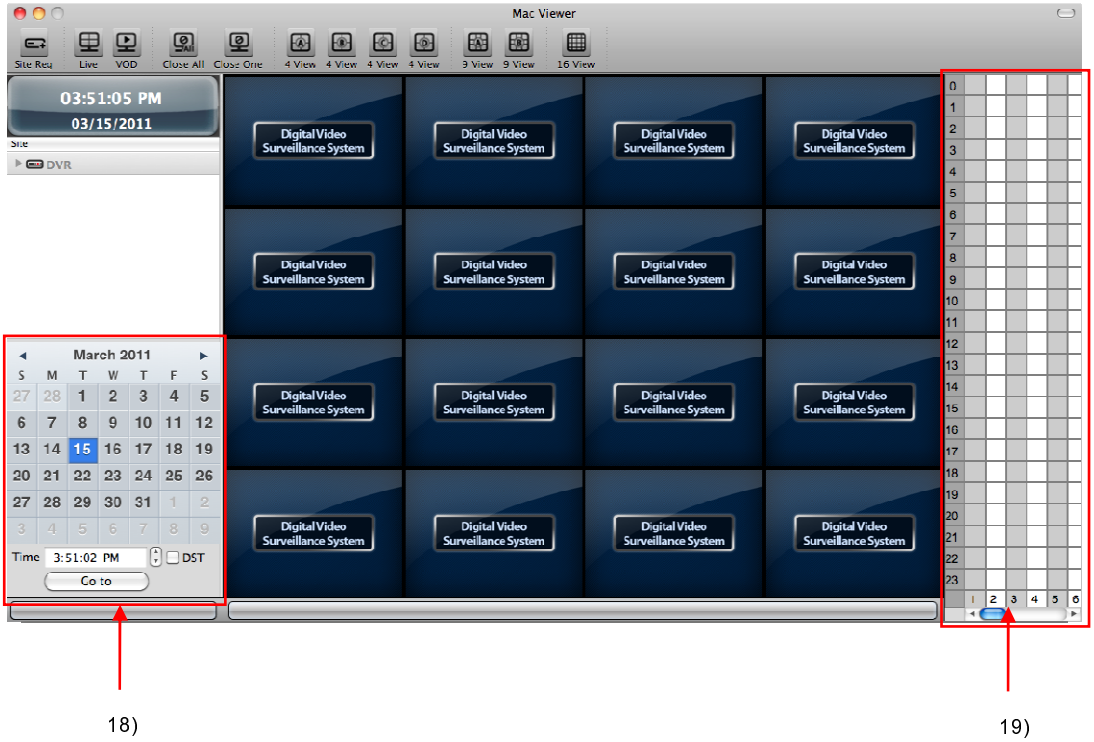
Execute MacViewer.app file in Applications to run MacViewer.

In case of the file which is downloaded from the internet(except MacAPP Store), warning message might be appeared at the first running. Once click [Open] button, it runs.



1.4 Main Screen





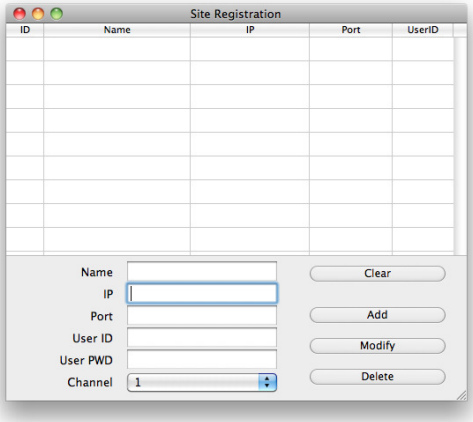
1) **DVR Site Registration** : Register the DVR to be connected
2) **Live Mode** : Monitoring Live image
3) **VOD Playback Mode** : Playback recorded image
4) **Close All** : Close the network connection for all channels
5) **Close One** : Close the connection for currently selected channel
6) **4View(A)** : Display in 4 channel mode (Channel 1~4)
7) **4View(B)** : Display in 4 channel mode (Channel 5~8)
8) **4View(C)** : Display in 4 channel mode (Channel 9~12)
9) **4View(D)** : Display in 4 channel mode (Channel 13~16)
10) **9View(A)** : Display in 9 channel mode (Channel 1~9)
11) **9View(B)** : Display in 9 channel mode (Channel 8~16)
12) **16View** : Display in 16 channel mode
13) **DVR Site Panel** : Show registered site list
14) **Display Screen** : Image Display
15) **PTZ Control Panel** : Control camera PTZ & focus
16) **Relay Control Panel** : Control relay of the DVR
17) **Channel Information** : Display registered DVR name and IP address of the focused channel
18) **VOD Time/Date Control** : Control time and date for VOD connection
19) **Intelligent Search** : Check recording status of the DVR in VOD mode
Move time bar to change time to playback

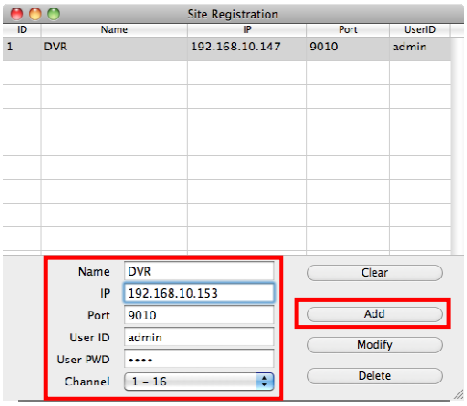
2. Site Management

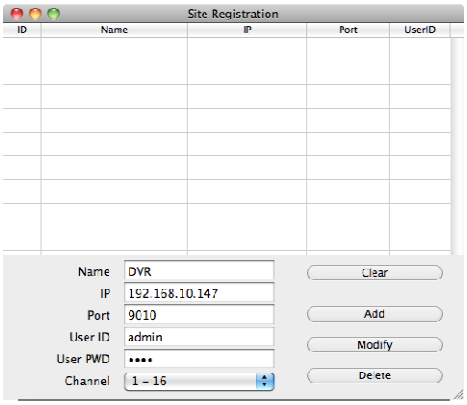
2.1 Site Registration

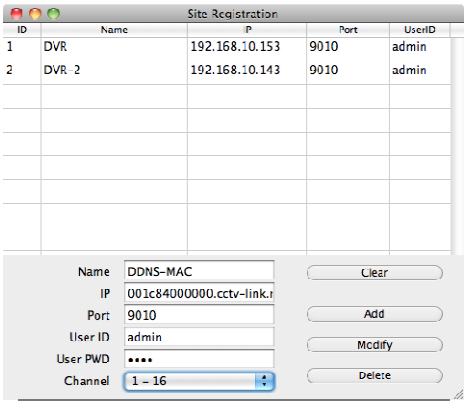
This is to register the relevant products such as DVR, IP camera and IP server in this MacViewer software, which is the 1st step to run the program.

1) Select the Site Registration icon on the main window and then site registration window will pop-up.
2) At [Site Registration] window, input site information such as DVR name, IP address, User ID, Password, Port , number of channel and so on. And click [Add] button to register.









[Using Static IP] **[Using DDNS]**

User has to input “Mac address + cctv-link.net” in IP Address for DDNS connection.
User can find the Mac Address in the menu of [System > System Info] of the DVR.

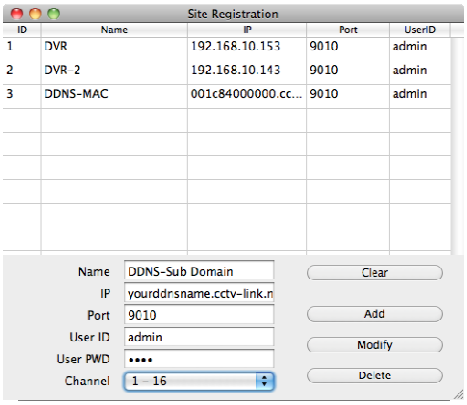
For example, if Mac address is “00:1C:84:01:00:02”, then the right IP Address in [Site Registration] shall be “**001c84010002.cctv-link.net**”.

If subdomain is used for DDNS registration at DVR, user can input the subdomain in IP Address.

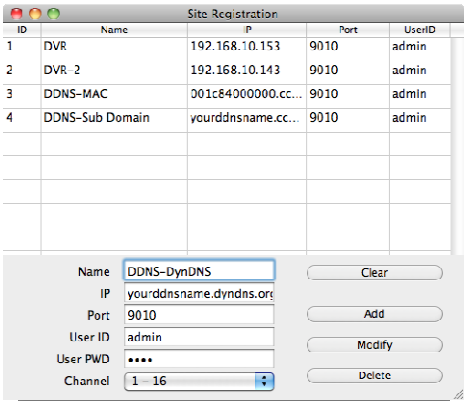
For example, if subdomain is “yourddnsname”, then the right IP Address in [Site Registration] shall be “**yourddnsname.cctv-link.net**”.

In case of Dyndns is being used, user can input the subdomain which is registered in Dyndns.org in IP Address.

For example, if subdomain is “yourddnsname”, then the right IP Address in [Site Registration] shall be “**yourddnsname.dyndns.org**”.



[Using cctv-link.net]



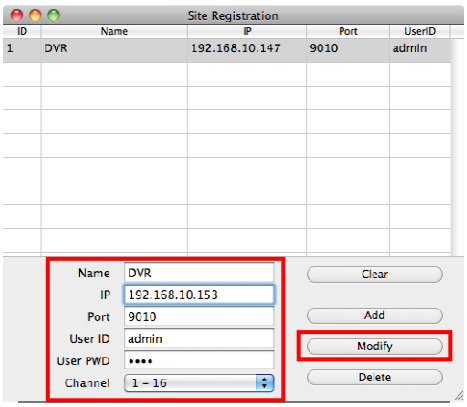
[Using Dyndns]

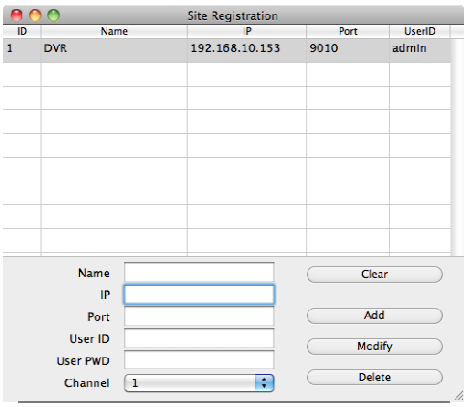
3) To initialize all input data, click [Clear] button.
4) Once the site registration is finished, click button to close the window.

2.2 Site Modification / Delete

User can modify or delete the registered site.

1) Select the Site Registration icon on the main window and then site registration window will pop-up.
2) Select a site to be modified and click [Modify] button.
3) Select a site to be deleted and click [Delete] button. Please check again before you click [Delete] button because there is no confirmation message.
4) Once the site modification / delete is finished, click button to close the window.





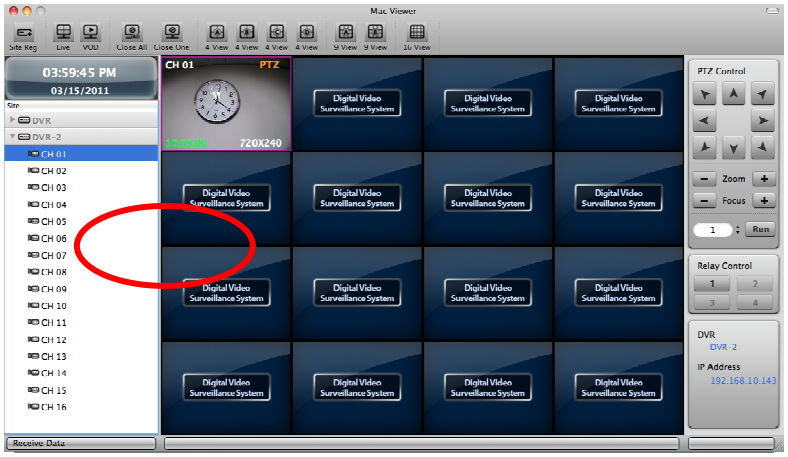
3. Live Mode (Live Monitoring)

User can get live monitoring window by a mouse click on Live Mode icon .

User can select the target site from Site Panel on the left of the main screen and drag & drop it into an empty channel screen that user wants to monitor.

When the connection is made, DVR name and IP Address for the focused channel are shown on the right-bottom of the main screen.

For one channel connection, click ▶ button on the left of the DVR name at DVR site panel to display all cameras. And then, select a camera and drag & drop it into an empty channel screen.



4. Playback Mode (VOD Playback)

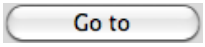
User can get playback window by a mouse click on Playback Mode icon .

User can select the target site from Site Panel on the left of the main screen and drag & drop it into an empty channel screen that user wants to playback.

Select the date on calendar and input the desired playback time. And then, drag & drop a site into

channel screen.

User can also search the recorded image by using Intelli-Search bar.

If user wants to move to a different time during playback, input time and click Go To 

button.

Mark on date means as follows.

: Date which has recorded data. Dot ● is shown below the date.

: Current Date.

: Date of currently displaying image.

Channel title, resolution and recorded time are displayed on each channel screen.

5. PTZ Control

In order to control PTZ, select a channel which is connected to a PTZ camera and control it with PTZ Control panel on the right side of the main screen.

If the PTZ camera supports preset mode, user can control preset by the keys on the control panel. Select the preset position number and click [Run] button to move.

Note PTZ control is available in Live Monitoring only.

6. Relay Control

Relay of DVR can be controlled during Live Monitoring.

Select a channel to control relay and click number button to control at Relay Control panel on the left side of the main screen.

[No. 1 Relay is On]

[All Relays are Off]

The number of relay vary according to DVR model. MacViewer reflects it, automatically.

[In case of the DVR that has only 1 relay]

Note There might be delay in relay control according to network condition.

7. Display Mode

Display mode controls for both Live Monitoring & VOD Playback are the same.

7.1 1 View (1 Channel Mode)

In Multi-channel mode, double-click on a channel to display in 1 Channel mode.
If user double-clicks that channel again, display mode returns to multi-channel mode. Or, user can change channel mode with the buttons on the top of the main screen.

7.2 4 View (4 Channel Mode)

User can see 4 Channel mode with the buttons

on the top of the main screen. It helps user to change quickly into the desired channel group.

Each button(A, B, C, D) shows the following channels.

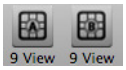
: Channel 1 ~ 4(based on MacViewer channel number).

: Channel 5 ~ 8(based on MacViewer channel number).

: Channel 9 ~12(based on MacViewer channel number).

: Channel 9 ~12(based on MacViewer channel number).

7.3 9 View (9 Channel Mode)

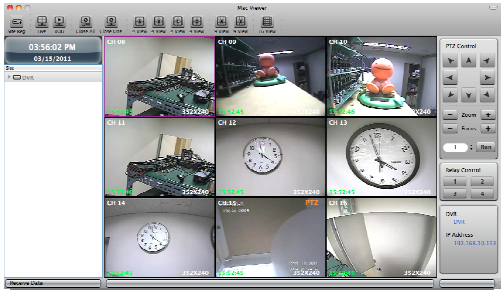
User can see 4 Channel mode with the buttons 

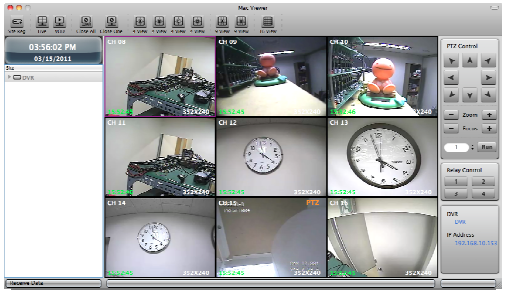
on the top of the main screen. It helps user to change quickly into the desired channel group.

Each button(A, B) shows the following channels.

: Channel 1 ~ 9(based on MacViewer channel number).

: Channel 8 ~ 16(based on MacViewer channel number).





7.4 16 View (16 Channel Mode)

User can see 16 Channel mode with the buttons

on the top of the main screen

8. Q & A

Q : I am now using Router. How do I set the network?

A : **[In case of single DVR]**

1) If the router supports DMZ function, please use DVR with DMZ.
2) If you want to use Port Forwarding function, please refer to the below port list to be used in DVR.

Protocol	Port	Usage	Remark	Editable	Location
TCP	**9010**	**DVR Data Port (for Remote S/W)**	**TCP Port**	**Yes**	**Network > Network**
TCP	**9011**	**DVR Mobile Port (for Mobile Viewer)**	**Mobile Port**	**Yes**	**Network > Network**
TCP	8002	DVR Time Sync Service	Need port forward at remote P/C network	Yes	System Info > Date/Time Setting
TCP	8003	Event Notify Socket	Need port forward at remote P/C network	Yes	Network > Notification
TCP	**80**	**Web Service**		**Yes**	**Network > Network**
TCP	80,8245	DDNS Server		Select	Network > DDNS
TCP	123	NTP Server		Fixed	Network > Network

[In case of multiple DVRs]

1) Please set not to be duplicated each other by using Port Forwarding function.
   Ex) If a DVR is set as “TCP base port : 9010, Mobile port: 9011”, set another DVR as “TCP base port 9012, Mobile port 9013”
2) Port duplication might cause functional restriction of time sync and event notify.
3) In case of DDNS server port, it works properly regardless of port duplication.

Q : There is “Buffering” message displayed, continuously, when I playback(VOD).

A : 1) It is displayed, in the multi-channel playback mode, for synchronizing playback time between channels.
2) In the case that there is no recorded image at that time(due to no motion detection, no sensor and so on), the message is displayed to synchronize playback time.
3) Please control the time with Intelligent Search Bar or reconnect at the desired time.

Q : I set a channel as “Covert” at the menu of the DVR(Device > Camera) but the channel is displayed.

A : If the ID at Site Registration is set as “admin”, all channels are displayed even it is set as “Covert”.
If you do not want to display the channel, you have to set ID at Site Registration with the other user ID besides “admin”.

Q : I want to connect to the DVR which is set with DDNS.

A : 1) Input “MAC address.cctv-link.net” of the DVR on the address section of Site Registration In MacViewer.
Ex) 001c84ffffff.cctv-link.net
2) Connection with Sub-domain is available and it can be set at the DVR.

Ex) MacViewer: test.cctv-link.net, WEB: http://test.cctv-link.net
3) Connection with DYNDNS is available and it requires registration at dyndns.com, previously. And also, it should be set at the DVR to use dyndns.
Ex) RemoteManager: yourdomainname.dyndns.com,
WEB: http://yourdomainname.dyndns.com

Q : I want to connect with the other user ID besides “admin”.

A : User ID in Site Registration should be one of the registered IDs in DVR.
Please register new ID and Password in DVR and connect with them.

Q : I changed playback speed in VOD mode but it doesn’t work properly.

A : 1) Image data for VOD(playback) comes from the DVR through Network. Therefore, in the case that the network condition is not good or the specification of the PC is not good enough, it doesn’t work properly.
2) It can be incorrect depends on the recording condition(motion recording, etc.) at the DVR.
3) When you change the speed, there might be “Buffering”.

Q : When I change mode to VOD while I am monitoring live image, live image connection is disconnected.

A : The structure between Live and VOD(playback) is different and it causes initialization of the software.
Please connect after changing into VOD(playback) mode.

>>>>> The End <<<<<